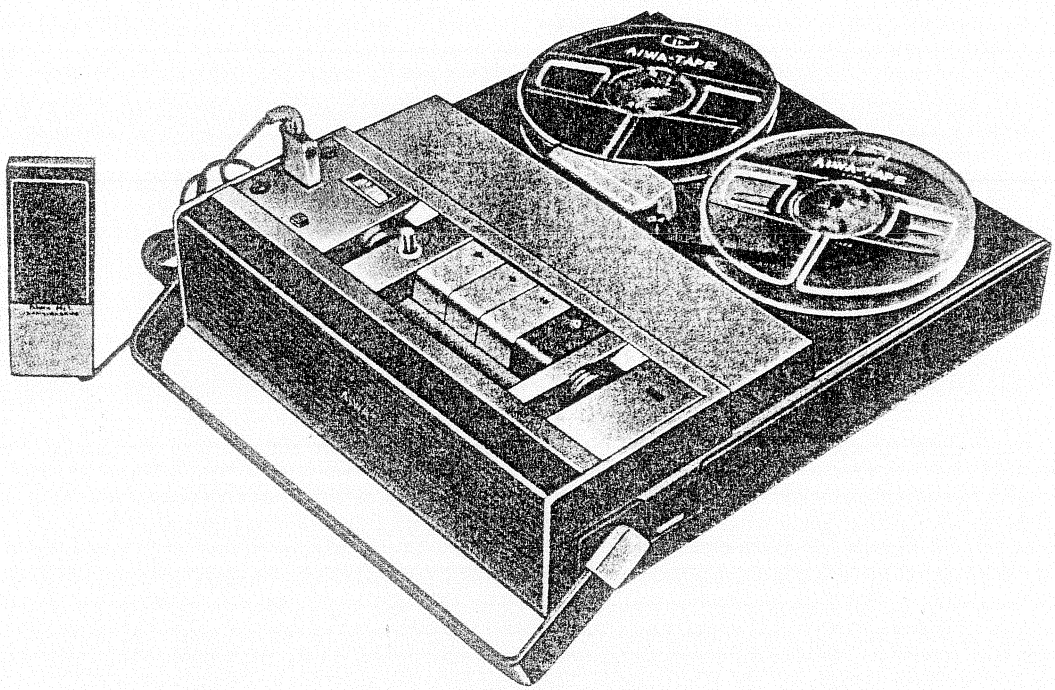
AIWA

TRANSISTOR TAPE RECORDER

MODEL **TP-730**

(SERVICE MANUAL)

AIWA CO., LTD.
TOKYO, JAPAN



SPECIFICATIONS

Type :	Capstan drive, 2-speed, dual-track
Amplifier:	7 transistors, 6 diodes, 2 valistors, 1 thermistor
Recording system :	AC bias, automatic recording level control (AVC) and normal
Power source :	Batteries Size "D" (UM-1) dry cell (1.5V) ×4, 6V
〃 〃	AC 117V 50/60 c/s (TP-730) AC 110~125V & 220~240V, 50/60 c/s switchable (TP-730H)

Tape speed & Recording time :	3¾ i.p.s (95 cm/sec) ·····60min 1⅞ i.p.s (4.75 cm/sec) ·····120min (total rounds of std. 600 ft. tape)
Output :	800mW, Max.
Speaker :	4"×2½" (100×70mm) oval PM.D.
VU meter :	Built-in w/battery level indicator
Dimensions :	12½"×10⅞"×3⅜" (310×280×87mm)
Weight :	3.5kg (7.7 lbs.) w/batteries

THIS SERVICE MANUAL IS EQUALLY APPLICABLE TO THE THREE MODELS, TP-730, TP-730S & TP-730H (H type is for high voltage use).

How to Take Out Internal Mechanism

1. Remove back lid:

a. Remove 4 setscrews 157 by means of a plus (+) screw-driver. (Fig. 1-1)
b. Pull AC input jack 219 in the direction indicated by the arrow mark (⇩) and remove it. (Fig. 1-1)
c. Remove 2 setscrews 183 securing Setector Switch in place (Fig. 1-2). (Applicable to TP-730H only)

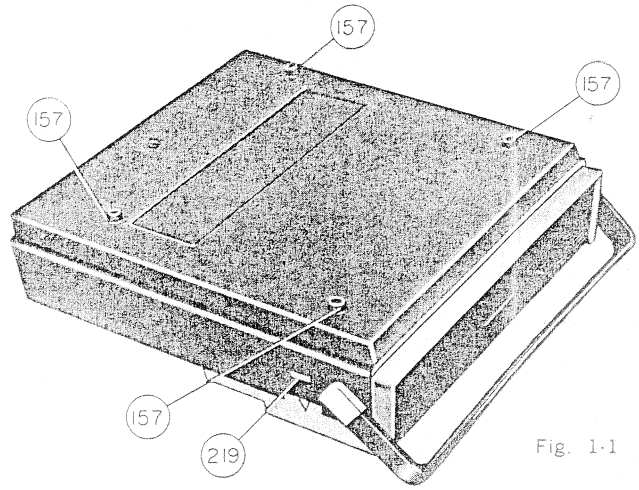


Fig. 1-1

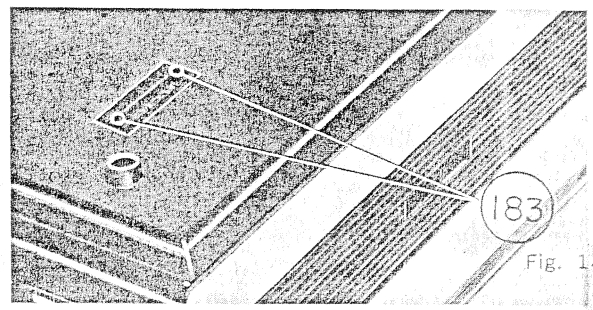


Fig. 1-2

2. Take out chassis assembly from case proper:

a. Remove 5 setscrews (153, 154. 156) by means of a plus(+)screwdriver. (Fig. 1-3)
b. Remove bind screw 174 by means of a plus (+) screwdriver. (Fig. 1-3)
c. Remove 2 setscrews 154 of switch holder by means of a plus (+) screwdiver (Fig. 1-3)
d. Remove setscrew 154 of volume holder by means of a plus (+) screwdriver. (Fig- 1-3)
e. Unsolder lead wires from battery terminal plate by means of a soldering iron.
f. Turn over the case proper and remove four jacks (AUX. EXT. MIC. REMOTE) by means of a jack driver.

Follow the above disassembly instructions and the chassis assembly will be removed from the case proper.

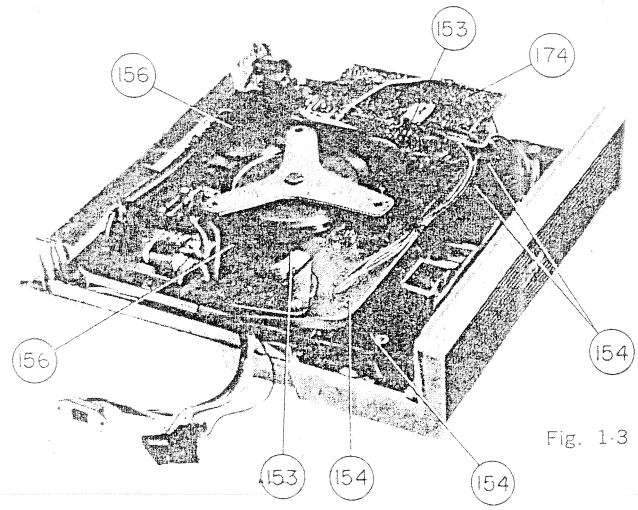
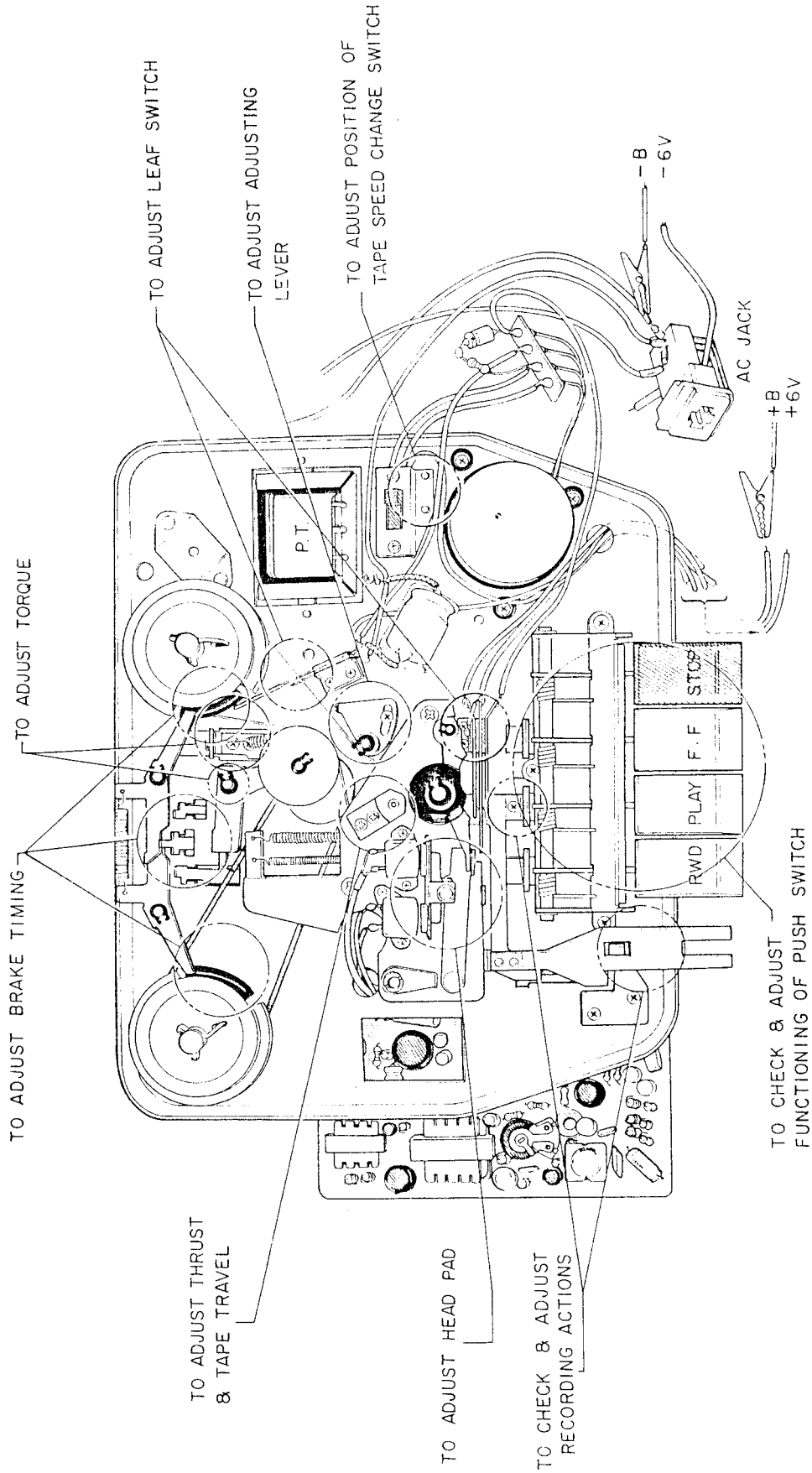


Fig. 1-3

ADJUSTABLE PARTS



3. OPERATION

1. Selection of Tape Speed

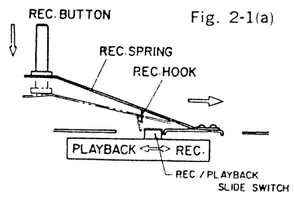
Open upper lid and find slide switch on the right of control panel. Tape speed can be changed from 3-3/4″/sec. (9.5cm/sec.) to 1-7/8″/sec. or vice versa by means of this slide switch. This speed selection is made by switching of motor governor.

2. Recording & Playback

Depressing REC button, press FWD button. This automatically locks both REC and FWD buttons to recording position.

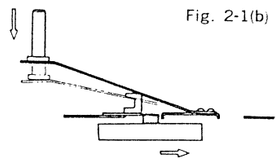
When REC button is depressed as above, the "hook" of recording switch spring riveted to recording switch lever comes down as indicated by the dotted line in Fig. 2-1 (a) and presses Record/Playback slide switch. With FWD button depressed, recording switch lever moves in the direction indicated by the arrow mark (⇨) while Record/Playback slide switch is slid to Recording position.

Fig. 2-1(a)



At the same time, square hole of recording switch spring becomes locked with locking plate of the chassis, making both recording switch spring and REC button remain in the depressed-down position as shown by Fig. 2-1 (b).

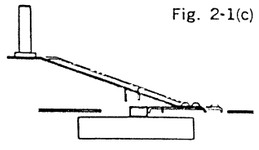
Fig. 2-1(b)



When FWD button is released from the above locked position, recording switch lever, together with main lever, is pulled back by spring and Record/Playback slide switch pushed back by the recording switch lever. This recorder is so designed that the Record/Playback slide switch may be set to Playback position without failure when the recorder is turned to Stop.

As shown by Fig. 2-1(c), the recording switch spring is not pressed in playback, so that the Record/Playback slide switch remains in playback position as indicated by the dotted line even when FWD button is locked.

Fig. 2-1(c)



3. Remote Stop/Start Control

Remote stop/start control of FWD operation is made elctrically by means of remote control switch fitted to microphone. This is a sort of remote control operation but does not work during F. FWD and RWD operations.

4. Rewinding

Depress RWD button until it is locked, and rewinding lever will move in the direction indicated by the mark (➡) in Fig. 2-2 while rewinding roller moves toward flywheel as indicated by the mark (↘) until it is made pressd onto the notched edge of flywheel by spring. At the same time, take-up spring is made released in the direction (⇨) and rewinding finaly takes place.

5. F. FWD

With F. FWD button locked (depressed), F. FWD lever moves in this (➡) direction, pulling takeup spring. As a result, tension of take-up belt increases and F. FWD operation takes place.

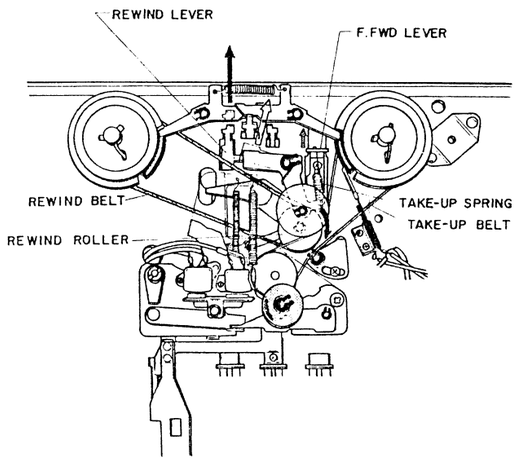


Fig. 2-2

REPAIR INSTRUCTIONS

☐ Possible cause ▶ Remedy

SYMPTOM	POSSIBLE CAUSE & REMEDY
Operates on neither AC nor battery porwer (No motor revolution)	1. ☐ Defective contact of remote control jack. ▶ Ⓐ and Ⓒ of the 2.5φ remote control jack must be in contact with each other at Ⓑ. Otherwise, the motor will not revolve. Bend Ⓐ in this direction (➡). Note: ☐ (When microphone plug is inserted, Ⓐ and Ⓒ of the jack should become separated from each other. If not, the motor will not stop revolving even with remote control switch of microphone turned to off. ▶ Bend Ⓐ in this (⇦) direction so that they should become separated from each other when the plug is inserted. 2. ☐ Defective contact of leaf switch. ▶ With F. FWD, FWD or RWD button locked (depressed), Ⓐ and Ⓑ must be in contact with each other. If not in contact as above, loosen screws, Ⓒ and Ⓓ, and make adjustment. Note that Ⓐ and Ⓑ should be separate from each other in Stop position. 3. ☐ Lead wire of motor broken. ▶ Solder the lead wire. 4. ☐ Defective motor. ▶ Replace motor.
Operates on neither AC nor battery power (Motor revolves)	1. ☐ Main belt out of place or broken. ▶ If the main belt has slipped out of flywheel motor pulley, mount it back properly as shown by the illustration. 2. ☐ Abnormal slackening of main belt. ▶ Replace the belt.

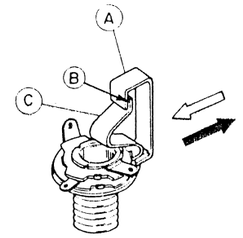


Fig. 2-3

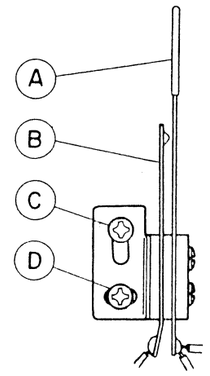


Fig. 2-4

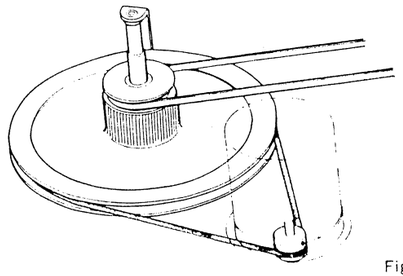


Fig. 2-5

SYMPTOM	POSSIBLE CAUSE & REMEDY
Operates on AC but not on battery	1. ☐ Too weak or dead batteries. When pointer of Level Meter comes to stay in the white range on play-back, it indicates worn-cut batteries. ▶ Replace batteries. 2. ☐ Battery terminal plate not soldered securely. ▶ Solder it securely. 3. ☐ Defective contact of AC input jack. ▶ Ⓒ and Ⓑ come in contact with each other when AC plug is inserted, and Ⓑ and Ⓐ come in contact when pulled off. Should Ⓑ and Ⓐ fail to come in contact as above, the set will not operate on batteries. Bend B and A so that they may come in contact with each other when they should. Or polish their contact points.
In FWD, it forwards tape but fails to take up.	☐ Insufficient takeup torque. ▶ As shown by Fig. 2-2, adjust the torque to around 35-40gr level by means of adjusting nut. For measurement of the torque, use a tension gauge and measure the torque at hub of 5″ or 3″ reel.
Unstable rewinding Speed slows down as rewinding approaches tape end	1. ☐ Back tension too strong. ▶ Adjust it so that takeup reel platform may turn slightly when the set is turned to RWD position after setscrew or takeup belt adjusting lever is loosened. The torque shonld be 5gr or less (Measuremont is made in the same manner as in case of takeup torque).
	2. ☐ Abnormal slackening or deterioration of rewind belt. ▶ Replace the belt.
	3. ☐ Groove of supply reel platform dirty with dust, oil or other alien material. ▶ Wipe it clean.
(No revolution)	☐ Rewind belt out of place or broken. ▶ Mount the belt onto the lower groove of reel platform.

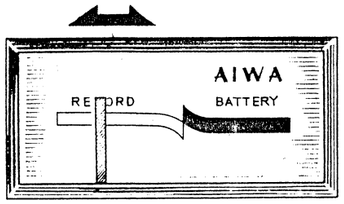


Fig. 2-6

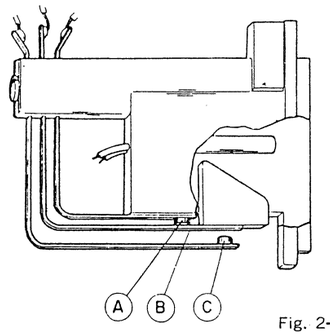


Fig. 2-7

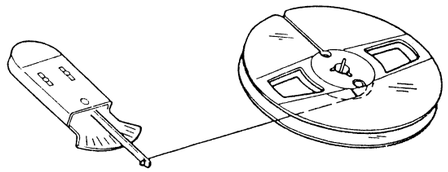


Fig. 2-8

SYMPTOM	POSSIBLE CAUSE & REMEDY
Unstable F. FWD operation	☐ Back tension too strong. ▶ Check if supply reel platform is not revolving smoothly. Also check lack of lubricant oil in tape counter shaft and reel shaft. Lubricate the revolving parts.
Brake not working in time	1. ☐ Rubber shoe of brake turn off. ▶ Bond it securely by means of binding agent (synthetic gum phenolic type). 2. ☐ Brake not working in time. ▶ Adjust it as illustrated here.
Tape speed too fast	☐ Defective motor. ▶ Replace motor.
Tape speed too slow	1. ☐ Defective motor. ▶ Replace motor. 2. ☐ Main belt abnormally slipping on pulley. ▶ If the belt has become too slackened, replace it with new one. If the pulley is stained with oil, clean it. 3. ☐ Lack of lubricant oil for pinch-roller bearing. ▶ Apply lubribant oil to the bearing. Be careful not to stain pinch-roller rubber with oil. 4. ☐ Bend of flywheel shaft. ▶ Replace flywheel assembly.
Irregular revolution	1. ☐ Lack of lubricant oil for pinch-roller bearing. ▶ Apply a drop or so of lubricant to it. 2. ☐ Capstan or pinch-roller stained with oil or dirty with alien materials. ▶ wipe it clean with carbon tetrachloride. 3. ☐ Deformation or wear-out of pinch-roller rubber. ▶ Replace pinch-roller. 4. ☐ wear-out of main belt. ▶ Replace the belt. 5. ☐ Eccentricity of flywheel shaft. ▶ Replace flywheel assembly. 6. ☐ Take-up torque too strong. ▶ Adjust the torque to about 30-40gr. 7. ☐ Defective motor. ▶ Replace motor.
Motor noise too big	☐ Defective motor. ▶ Replace motor.

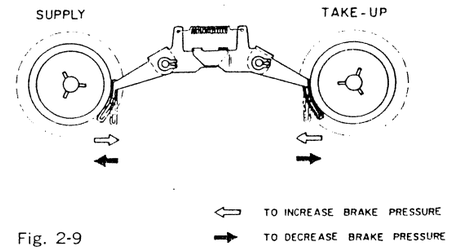
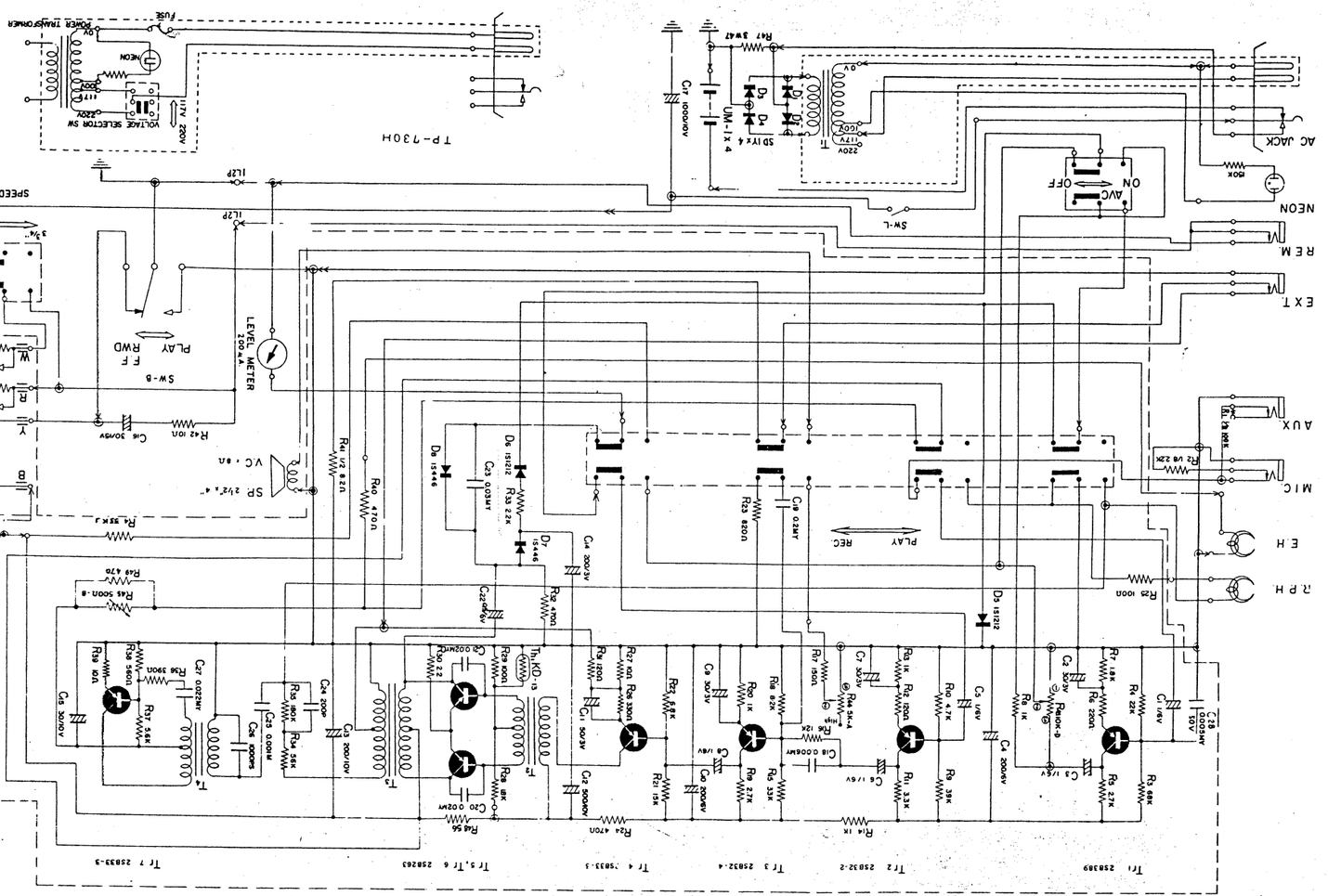
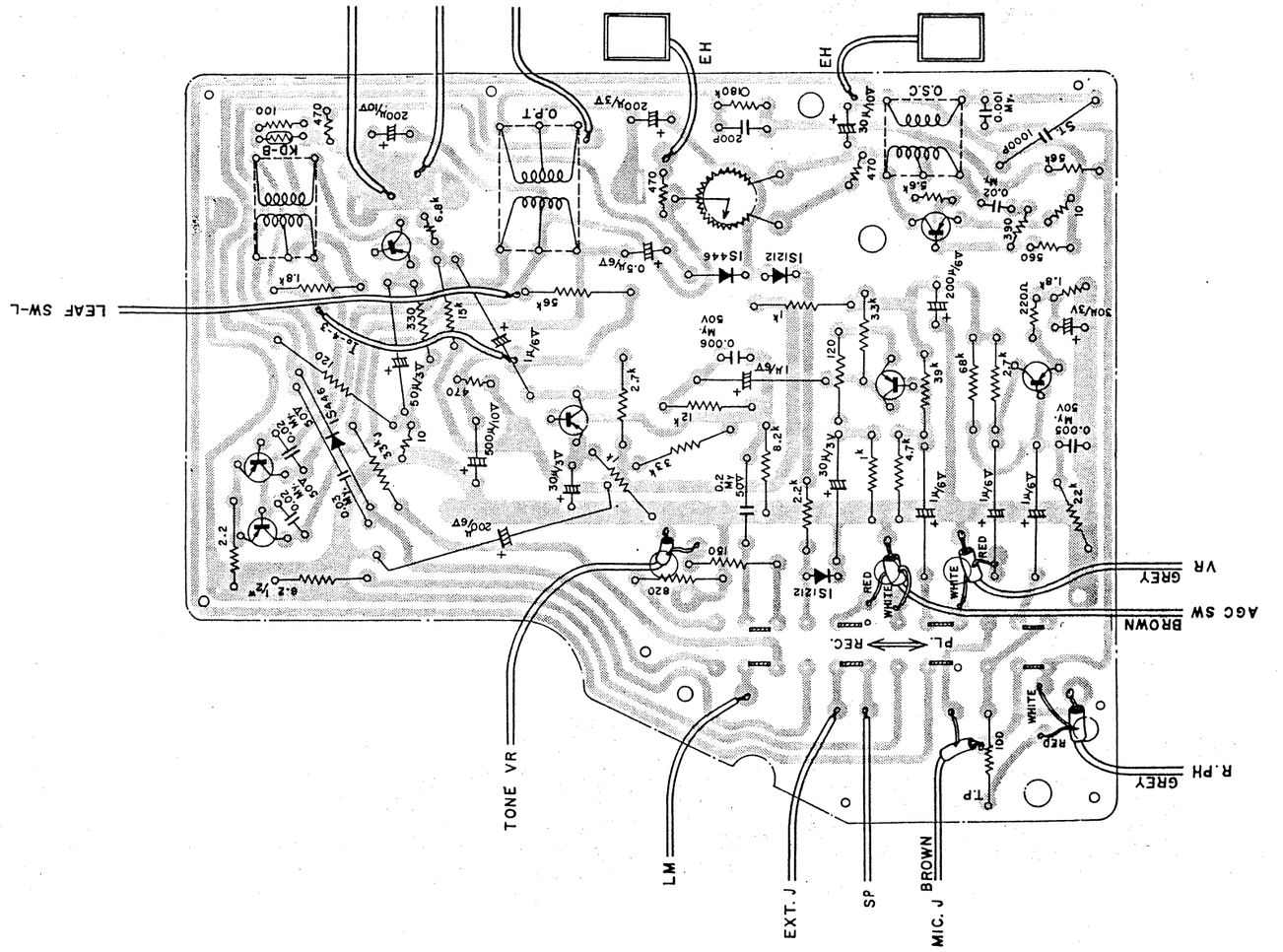
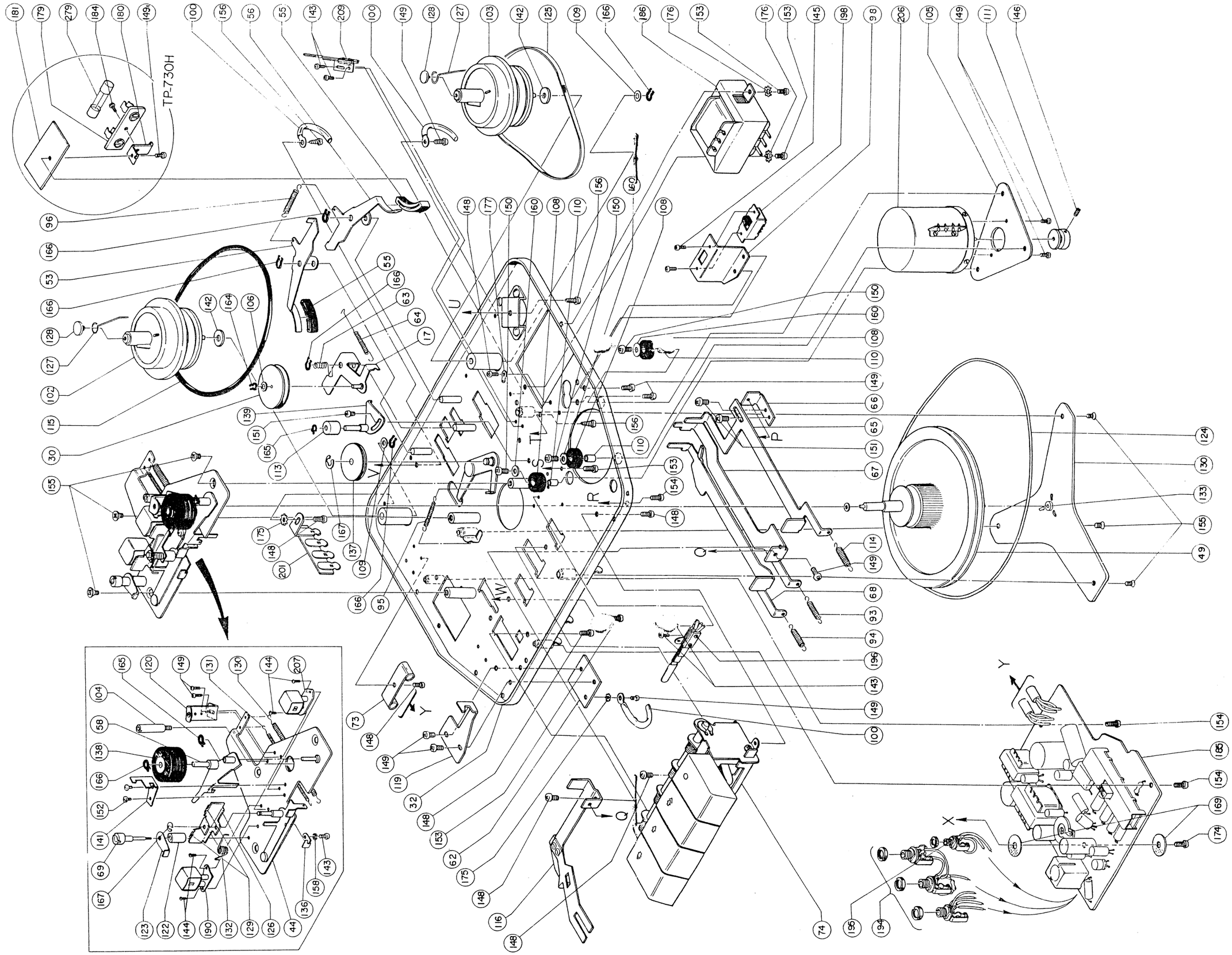


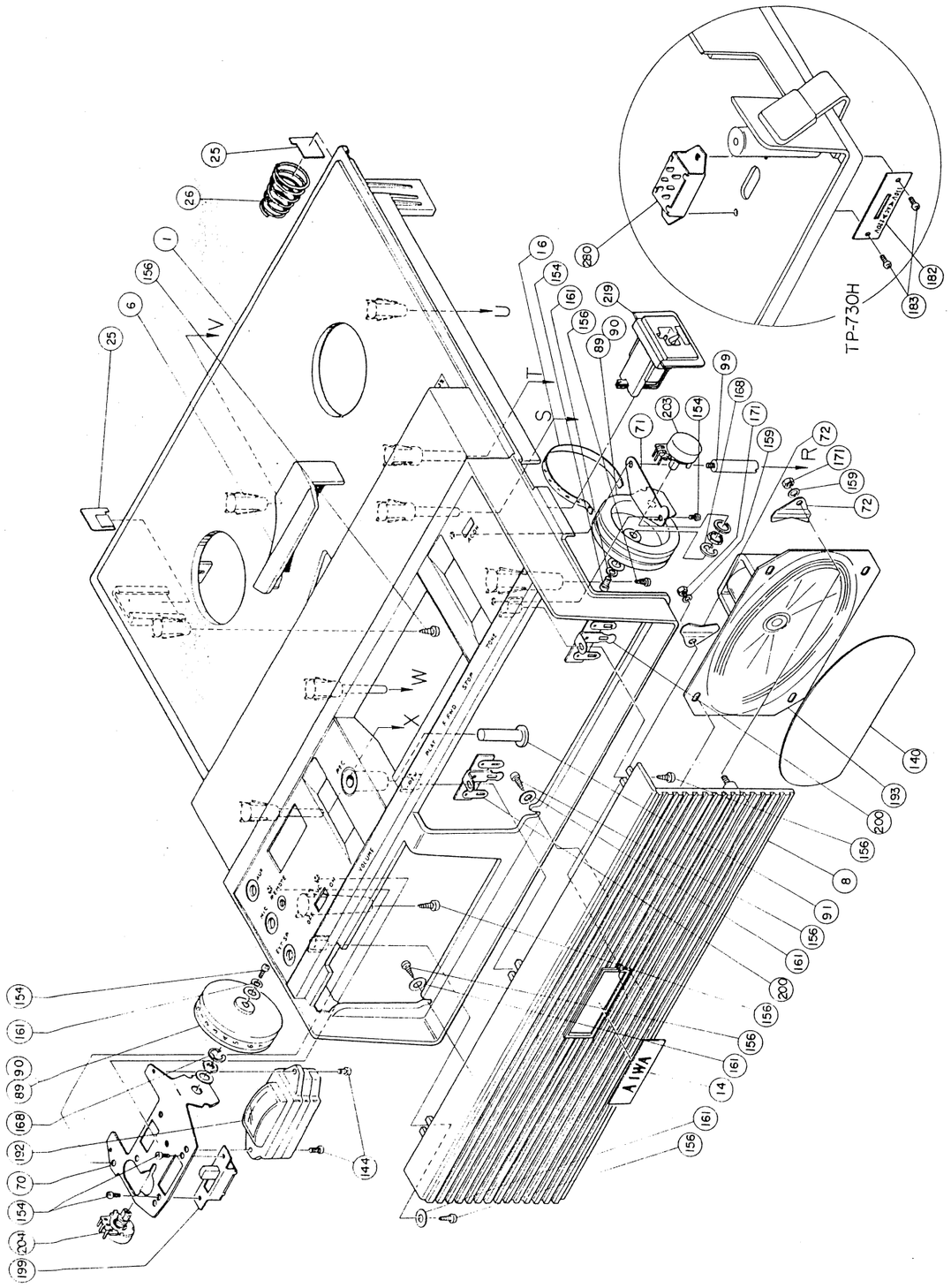
Fig. 2-9

NOTE: Subject to change without prior notice






TP-730H



PARTS LIST

MECHANICAL PARTS

TP-730 MECHANICAL PARTS

Ref. No.	Part No.	Description	Quantity	Remarks
1	2257041	Case proper	1	
2	2257002	Back lid	1	
3	2257042	Upper lid, Case	1	
4	2257030	Window	1	
5	2339007	Lid, Battery compartment	1	
6	2257004	Head cover	1	
7	2257023	Jack sheet	1	
8	2339017	Grille	1	
9	2257008	Name plate	1	
10	2257005	Decorative plate A	1	
11	2257006	〃 〃 B	1	
12	2246012	Motor plate	1	
13	2246013	Front name plate	1	
14	2257009	Brand name plate	1	
15	2240006	U plate	1	
16	2332025	Name plate, Volume knob	2	
17	2246251	Pressure lever ass'y	1	
18	2246252	Pressure lever	1	
19	2246134	Pressure pulley shaft	1	
20	2257011	Handle	1	
21	2257013	Metal fittings, Handle cover	2	
22	2240024	Handle retaining metal fittings	2	
23	2201008	Cam, Battery compartment lid	1	
24	2201009	Caulking pin, Btry compartment	1	
25	7038018	Battery terminal plate	2	
26	2222036	Battery spring	1	
27	2332151	Speaker box rubber	2	
28	7054005	Voltage indication name plate	1	
29	2211024	Glass shield, pilot lamp	1	
30	2246207	Pressure pulley	1	
31	2332061	SVL metal	4	
32	2257044	Chassis ass'y	1	
33	2257045	Chassis	1	
34	2257027	Clamping metal fitting	1	
35	2245268	Brake lever shaft	2	
36	2257040	Amp. staud A	2	
37	2246106	Staud, Lower shaft bearing	3	
38	2246107	Bushing, Reel platform	3	
39	2246108	Sub-chassis base	1	
40	2246109	Rewinding lever ass'y	1	
41	2246110	〃 〃	1	
42	2246111	〃 pulley shaft	1	
43	2246112	Caulking pin	1	
44	2340026	Sub-chassis ass'y	1	
45	2340018	Sub-chassis	1	
46	2211160	Head pad actuating lever	1	
47	2211150	Pinch-roller lever shaft	1	
48	2207200	Caulking pin	1	
49	2246263	Flywheel ass'y	1	
50	2246264	Flywheel pulley	1	
51	2246255	〃 〃	1	
52	2246262	〃 shaft	1	
53	2246123	Right brake shoe ass'y	1	
54	2246124	Right brake shoe	1	
55	2246125	Brake rubber	2	
56	2246126	Left brake ass'y	1	

Ref. No.	Part No.	Description	Quantity	Remarks
57	2246127	Left brake shoe	1	
58	2246128	Pinch-roller lever ass'y	1	
59	2246129	Pinch-roller lever	1	
60	2211116	Collar, Pinch-roller lever	1	
61	2211116	Pinch-roller shaft	1	
62	2257025	Lock metal fitting	1	
63	2246260	Tension spring	1	
64	2246261	F.Forward spring	1	
65	2246135	〃 lever A	1	
66	2246136	〃 〃 B	1	
67	2246137	Main lever	1	
68	2246253	Rewinding lever	1	
69	2257020	Tape guide shaft	1	
70	2257021	Switch holder	1	
71	2257022	Volume holder	1	
72	2332035	Speaker clamp	2	
73	7038004	Radiating plate	1	
74	2257015	Push-button ass'y	1	
75	2257016-8	Push-button key	3	FWD. F.FWD. RWD.
76	2257019	〃 〃	1	STOP
77	2246148	〃 proper	1	
78	2246149	〃 shaft	1	
79	2246150	Revolution stop lock	1	
80	2246151	Push-button spring	1	
81	2246152	Stop spring	1	
82	2246153	Push-button stopper	1	
83	2246154	Slide plate	1	
84	2246155	〃 spring	1	
85	7442005	Power stop ring, 5φ	2	
86	2246156	Push-button lever	4	
87	7261072	Pan-head screw, V⊕2.6-5	2	
88	7422305	Spring washer, WS-2.6	2	
89	2332072	Volume control knob A	2	
90	2332073	〃 〃 〃 B	2	
91	2246237	Record button	1	
92	2340024	Pad felt	2	
93	2246163	Main spring	1	
94	2246164	Rewinding spring	1	
95	2246165	〃 bar spring	1	
96	2246271	Brake spring	1	
97	2246010	Pressure pad, Battery room	1	
98	2246169	Motor switch mount	1	
99	2257036	Strut	1	
100	7035007	Metal fittings, Wiring band	4	
101	2332114	Molt plain D	1	
102	2246175	Supply reel platform	1	
103	2246248	Takeup reel platform	1	
104	2257024	Head cover holder	1	
105	2340025	Motor supporter	1	
106	7081036	Washer, W-2-5-0.2	2	
107	7081043	〃 W-4-8-0.3	2	
108	2246188	Rubber bushing	3	
109	7081081	Nylon washer	3	
110	2246190	Motor collar	3	
111	2246191	〃 pulley, 2P	1	
112	2246192	〃 〃 2A	1	
113	2246194	Adjustment roller	1	
114	2246204	F.FWD lever spring	1	

Ref. No.	Part No.	Description	Quantity	Remarks
115	2246206	Rewinding belt	1	
116	2246244	Record switch lever	1	
117	2246246	Record switch lever	1	
118	2246245	〃 〃 spring	1	
119	2246241	Locking plate	1	
120	2211115	Upper shaft bearing holder	1	
121	2211121	Lower shaft bearing mount	1	
122	2211153	Tape guide holder	1	
123	2211154	〃 〃 mcunt	1	
124	2211156	Main belt	1	
125	2211157	Takeup belt	1	
126	2211159	Tape pad plate	1	
127	2211177	Metal fittings, Reel	2	
128	2211178	Reel platform cap	2	
129	2211101	Head pad	2	
130	2211190	Pinch-roller spring	1	
131	2281110	Head pad sprng	1	
132	2211192	〃 〃 lever spring	1	
133	2209129	Wheel bearing	2	
134	2207220	Thrust plate	1	
135	2207221	Steel ribbon	1	
136	2207286	Head pad actuating lever stopper	1	
137	2207142	Rewinding pulley	1	
138	2207137	Pinch roller	1	
139	2332065	Adjuting lever ass'y	1	
140	2332028	Speaker net	1	
141	2257010	Tape guide plate	1	
142	2246272	Washer	2	
143	7263031	Pan-head screw, V⊕2-2S	4	For leaf switch
144	7263034	〃 〃 V⊕2-5S	6	4 for head & 2 for level meter
145	7253032	Bind screw, U⊕2-3S	3	2 for speed change switch, 1 for headpad actuating lever stopper
146	7373034	Set screw, SS-2-5	1	For motor pulley
147	7263072	Pan-head screw, V⊕2.6-5S	2	For motor
148	7263070	〃 〃 V⊕2.6-3S	10	2 for upper shaft bearing; 3 for push-button switch; 2 fof tape guids guide; 1 for radiation plate; 2 for rec. spring
149	7263071	〃 〃 V⊕2.6-4S	10	4 for wiring metal binder; 2 for locking metal; 2 for lug plate; 2 for AVC switch
150	7263074	〃 〃 V⊕2.6-8S	3	For motor supporter
151	7253070	Bind screw, U⊕2.6-3S	4	2 for switch holder, 2 for F.Forward lever
152	7233071	Countersunk scrw, Q⊕2.6-4S	2	For tape guide
153	7263093	Pan-head screw, V⊕3-5S	4	2 for chassis & case proper; transformer
154	7253093	Bind screw, U⊕3-5S	6	2 for amp., 2 for switch holder & 2 for volume holder
155	7233094	Countersunk screw, Q⊕3-6S	6	3 for sub-chassis & 3 for lower shaft bearing
156	7351096	Tapping screw, VTI⊕3-10S	8	6 for grille; 2 for chassis & case proper
157	7351097	〃 〃 VTI⊕3-12S	4	For back lid
158	7422303	Spring washer, WS-2.1-4.4-0.5	3	1 for pad actuating lever stopper & 2 for tape guide plate
159	7422306	〃 〃 WS-35.9-0.7	2	For speaker
160	7410411	Washer, W-2.6-7.5-0.5	3	For motor supporter
161	7410317	〃 W-3-10-0.8	8	6 for grille & 2 for volume
162	7081015	Fibre washer, WF-3-8-0.5	3	For amp.
163	7081018	〃 〃 WF-4-8-0.5	1	For pinch-roller
164	7442002	Power stop ring, STP-2	1	For tension roller
165	7442003	〃 〃 〃 STP-3	2	1 for pinch-roller lever & 1 for adjusting

Ref. No.	Part No.	Description	Quantity	Remarks
				roller
166	7442004	Power stop ring, STP-2	6	2 for reel platform; 2 for brake shoe; 1 for tension roller; 1 for pinch-roller
167	7441010	E stop ring, STE-3.2	4	2 for handle, 1 for head pad & 1 for rewinding pulley
168	7441012	〃 〃 〃 STE-5	2	For volume
169	7081086	Fibre washer, WF-5.2ϕ-12ϕ-1.6t	2	For handle
170	7081033	〃 〃 WF-5-10-0.5	2	〃 〃
171	7391019	Nut, N-3-3	2	For speaker
172	7421305	Spring washer, WS-2.6-7.5-0.5	1	For head cover
173	7081129	Fibre washer, WF-3.2-12-1.0t	2	For amp.
174	7253095	Bind screw, U⊕3-8S	1	For amp.
175	7432903	Crown washer, WTE-2.6	1	For IL 3p
176	7432904	〃 〃 WTE-3	2	For transformer
177	7450413	LB-3	1	
178	7450414	LB-4	2	

TP-730H MECHANICAL PARTS

Ref. No.	Part No.	Description	Quantity	Remarks
TO BE ADDED TO TP-730 PARTS LIST				
2a	2257028	Back lid	1	
12a	2246033	Motor	1	
28a	7054013	Name plate, AC indicator	1	
149a	7263071	Pan-head screw, V⊕2.6-4s	1	For fuse holder
179	7033007	Fuse holder	1	
180	2281104	Metal fitting for fuse holder mount'g	1	
181	2281105	Fibre insulator A	1	
182	7054022	Name, plate, Voltage selector switch	1	
183	7263095	Pan-head screw, V⊕3-8S	2	For voltage selector switch
184	7263092	〃 〃 V⊕3-4S	1	For fuse holder metal fitting
TO BE DELETED FROM TP-730 PARTS LIST				
2	2257002	Back lid	1	
12	2246012	Motor plate	1	
28	7054005	Name plate, Voltage indicator	1	

TP-730S MECHANICAL PARTS

Ref. No.	Part No.	Description	Quantity	Remarks
TO BE ADDED TO TP-730 PARTS LIST				
9a	2257043	Name plate	1	
TO BE DELETED FROM TP-730 PARTS LIST				
9	2257008	Name plate	1	

ELECTRICAL PARTS

TP-730 ELECTRICAL PARTS

Ref. No.	Symb. No.	Part No.	Description	Quantity	Remarks
185		2257601	Printed chassis	1	
186	P.T	7004066	Power transformer	1	
187	O.P.T	7002011	Output power transformer	1	
188	I.P.T	7002012	Input power transformer	1	
189	OSC	7007003	Oscillator coil	1	

Ref. No.	Symb. No.	Part No.	Description	Quantity	Remarks
190	EH	2246002	Eraser head ass'y	1	
191		7046022	Eraser head	1	
192	LM	2211183	Level meter	1	
193	SP	7048012	Speaker	1	
194		7032001	Jack, 3.5ϕ	3	
195		7032002	〃 2.5ϕ	1	
196		7031013	Leaf switch B	1	
197		7031060	Slide switch D	1	
198		7031061	AVC switch E	1	
199		7031017	Slide switch B ALC	1	
200		7033001	Lagging terminal	2	1L 2P
201		7033040	〃 〃	1	1L 3P
202	NL	7035025	Neon lamp	1	
203	VR2	7021068	Tone control	1	5K-A
204	VR1	2261307	Volume control	1	10K-D
205		7021070	Semi-fixed resistor	1	
206	M	7045017	Motor	1	
207	R-PH	2246627	Record/playback head ass'y	1	
208		7046021	Record/playback head	1	
209		7031078	Leaf switch L	1	
210	Tr1	8023892	Transistor	1	2SB 389
211	Tr2	8020322	〃	1	2SB 32(2)
212	Tr3	8020324	〃	1	2SB 32(4)
213	Tr4,7	8020333	〃	2	2SB 33(3)
214	Tr5,6	8022630	〃	2	2SB 263
215	D7,8	8052446	Diode	2	IS446
216	D5,6	7027025	〃	2	IS1212
217	D1,2,3,4	7027005	〃	4	SD-1
218	Th	7026008	Thermister	1	
219	AC.J	7032234	AC jack	1	
220		2257608	Shield wire kit	1	
221		2257616	Tube kit	1	
222		2257620	Wire kit	1	
223	R1	8122104	Fixed resistor	1	100KΩ
224	R30	8132229	〃 〃	1	2.2Ω
225	R27,39,42	8132100	〃 〃	3	10Ω
226	R25,29	8132101	〃 〃	2	100Ω
227	R12,31	8132121	〃 〃	2	120Ω
228	R17	8132151	〃 〃	1	150Ω
229	R6	8132221	〃 〃	1	220Ω
230	R26	8132331	〃 〃	1	330Ω
231	R36	8132391	〃 〃	1	390Ω
232	R24,32,40,49	8132471	〃 〃	4	470Ω
233	R38	8132561	〃 〃	1	560Ω
234	R23	8132821	〃 〃	1	820Ω
235	R8,13,14,20	8132102	〃 〃	4	1KΩ
236	R7,28	8132182	〃 〃	2	1.8KΩ
237	R33	8132222	〃 〃	1	2.2KΩ
238	R5,19	8132272	〃 〃	2	2.7KΩ
239	R11	8132332	〃 〃	1	3.3KΩ
240	R10	8132472	〃 〃	1	4.7KΩ
241	R37	8132562	〃 〃	1	5.6KΩ
242	R22	8132682	〃 〃	1	6.8KΩ
243	R18	8132822	〃 〃	1	8.2KΩ
244	R16	8132123	〃 〃	1	12KΩ
245	R21	8132153	〃 〃	1	15KΩ
246	R4	8132223	〃 〃	1	22KΩ
247	R15	8132333	〃 〃	1	33KΩ

Ref. No.	Symb. No.	Part No.	Description	Quantity	Remarks
248	R9	8132393	Fixed resistor	1	39KΩ
249	R34	8132563	〃 〃	1	56KΩ
250	R3	8132683	〃 〃	1	68KΩ
251	R35	8132184	〃 〃	1	180KΩ
252	R41	8122222	〃 〃	1	8.2Ω
253	R2	8132560	〃 〃	1	2.2KΩ
254	R48	8132560	〃 〃	1	56Ω
255	R46	8131333	〃 〃	1	33Ω
256	R47	8142121	〃 〃	1	47Ω
257	C1,3,5,6,8	8432106	Electrolytic capacitor	5	1μF, 6WV Horizontal
258	C22	8332594	〃 〃	1	0.5μF, 6WV Vertical
259	C2,7	8431314	〃 〃	1	30μF, 3WV Horizontal
260	C9	8331314	〃 〃	2	〃 〃 Vertical
261	C15	8334314	〃 〃	1	〃 10WV Vertical
262	C16	8435314	〃 〃	1	〃 15WV Horizontal
263	C11	8431514	〃 〃	1	50μF, 3WV 〃
264	C14	8331224	〃 〃	1	200μF, 3WV Vertical
265	C4	8332224	〃 〃	1	〃 6WV 〃
266	C10	8433224	〃 〃	1	〃 〃 Horizonta
267	C13	8333224	〃 〃	1	〃 10WV Vertical
268	C12	8333524	〃 〃	1	500μF, 〃 〃
269	C17	8433138	〃 〃	1	1000μF, 10WV Horizontall
270	C25	8727610	Mylar capacitor	1	0.001μF,60V
271	C28	8727720	〃 〃	1	0.005μF, 50V
272	C18	8727730	〃 〃	1	0.006μF, 〃
273	C20,21,27	8727830	〃 〃	3	0.02μF, 〃
274	C23	8727840	〃 〃	1	0.03μF, 〃
275	C19	8727930	〃 〃	1	0.2μF 〃
276	C26	8619613	Styrol capacitor	1	1000pF, 125WV
277	C24	8202470	Ceramic capacitor	1	200pF

TP-730H ELECTRICAL PARTS

Ref. No.	Part No.	Description	Quantity	Remarks
TO BE ADDED TO TP-730 PARTS LIST				
222a	2257621	Wire kit	1	
279	7035006	Fuse		
280	7031058	Voltage change switch	1	
TO BE DELETED FROM TP-730 PARTS LIST				
222	2257620	Wire kit	1	

TP-730S ELECTRICAL PARTS

Ref. No.	Part No.	Description	Quantity	Remarks
TO BE ADDED TO TP-730 PARTS LIST				
222b	2257619	Wire kit	1	
281	2223615	UL tube kit	1	
TO BE DELETED FROM TP-730 PARTS LIST				
200	7033001	Lagging terminal	1	
222	2257620	Wire kit	1	

ACCESSORIES/PACKAGE LIST

TP-730 ACCESSORIES/PACKAGE LIST

Ref. No.	Part No.	Description	Quantity	Remarks
282	0525486	Dynamic microphone	1	
283	7034008	AC cord	1	
284	7039310	5″ reel w/tape	1	
285	7039500	5″ reel, empty	1	
286	7048019	Earphone	1	
287	7047001	Battery	4	Size "D"
288	2257851	Printed indiv. packing case	1	
289	2240856	Sleeve, Indiv. packing	1	
290	2240853	Cushion, Indiv. packing	1	
291	2240852	Accessory cushion	1	
292	2240854	Internal carton box	1	
293	7058003	Silica gel	1	
294	7055029	Microphone pouch	1	
295	7057087	Open label	2	
296	7057129	label, Record button	1	
297	2257901	Instructions booklet	1	
298	7057156	Service card	1	
299	7057106	Caution label	1	

TP-730H ACCESSORIES/PACKAGE LIST

Ref. No.	Part No.	Description	Quantity	Remarks
TO BE ADDEO TO TP-730 PARTS ILST				
283a	7034004	AC cord	1	
284a	7039p80	Pre-recorded tape	1	
297a	2257902	Instructions booblet	1	
299a	7057239	Caution label	1	
300	7032047	Siemens plug	1	
301	7057173	Tag, Voltage selector	1	
302	7057244	Agent list	1	
TO BE DELETED FROM TP-730 PARTS LIST				
283	7034018	AC cord	1	
284	7039E10	5″ reel w/tape	1	
297	2257901	Instructions booklet	1	
298	7057156	Service card	1	
299	7057105	Caution label	1	

TP-730S ACCESSORIES/PACKAGE LIST

Ref. No.	Part No.	Description	Quantity	Remarks
TO BE ADDED TO TP-730 PARTS LIST				
283b	7034018	AC cord	1	
300	7057104	UL label	1	
TO BE DELETED FROM TP-730 PARTS LIST				
283	7034003	AC cord	1	
299	7057105	Caution label	1	